

Title (en)  
Ultrasonic apparatus for diagnosis and therapy

Title (de)  
Ultraschallgerät zur Diagnose und Therapie

Title (fr)  
Appareil à ultrasons pour ea diagnose et la thérapie

Publication  
**EP 1723911 B1 20120404 (EN)**

Application  
**EP 06001350 A 20060123**

Priority  
JP 2005144367 A 20050517

Abstract (en)  
[origin: EP1723911A1] The ultrasonic apparatus (1) for diagnosis and therapy includes: a first ultrasound probe (2), a second ultrasound probe (3), and an ultrasound exposure apparatus (4) for exposure by ultrasounds for phase transition, diagnosis, and therapy, respectively; an echo detection device (2) for detecting an ultrasound echo; control parts (53, 52) for the phase transition for causing a transition in an ultrasound contrast agent by exposure by ultrasound for the transition through the first probe, and for the diagnosis by detecting the transition of the agent, using the echo detected by the detection device, corresponding to an exposure by the ultrasound for the diagnosis by the second probe; a difference calculation device (552) for calculating a difference over time of the transition detected by the control part for the diagnosis; a position device (553) for deciding a target position where the difference is produced; and a therapy control part (54) for exposure by the ultrasound for the therapy to the decided target position through the exposure apparatus.

IPC 8 full level  
**A61B 8/08** (2006.01); **A61N 7/02** (2006.01)

CPC (source: EP US)  
**A61B 8/08** (2013.01 - EP US); **A61B 8/481** (2013.01 - EP US); **A61N 7/02** (2013.01 - EP US); **A61B 2090/378** (2016.02 - EP US)

Cited by  
EP2081051A1; EP1990010A1; EP1965224A3; US10201326B2; US8932239B2; WO2015002400A1; WO2006131840A3; US9238152B2; US9662089B2

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**EP 1723911 A1 20061122; EP 1723911 B1 20120404**; CN 100446732 C 20081231; CN 1864636 A 20061122; JP 2006320405 A 20061130; JP 4630127 B2 20110209; US 2007016042 A1 20070118; US 7824336 B2 20101102

DOCDB simple family (application)  
**EP 06001350 A 20060123**; CN 200610001576 A 20060124; JP 2005144367 A 20050517; US 33684906 A 20060123